

IN THE SPECIFICATION:

Please amend the paragraph beginning at page 36, line 25, as shown below:

In the configuration shown in Fig. 1, a substrate is a flat substrate 11 the surface of which is provided with an aluminum oxide layer 12 as a coating layer composed of a substrate containing aluminum oxide. The immobilization of the organic substance is carried out on the surface of the aluminum oxide layer 12 alternatively with the binding domain 15. On the other hand, the organic substance itself, which corresponds to the functional domain 14 being coupled with the binding domain 15, is able to perform weak physical adsorption non-selectively on the aluminum oxide layer 12. However, part of the binding domain 15, which specifically binds to the aluminum oxide, binds more dominantly. As a result, due to such a competing process, the organic substance itself corresponding to the functional domain 14 has a low frequency of causing physical adsorption on the surface of the substrate, and it is possible to reduce the non-specific weak adsorption by selecting the immobilization condition. Reference numeral 21 represents a conductive substrate, and reference numeral 22 represents an aluminum oxide porous material.